Exhibit 11

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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
13/924,186	06/21/2013	Dong Ryeol SHIN	042106.0003	1551	
89980 NSIP LAW	7590 06/22/201	6	EXAMINER		
P.O. Box 65745 Washington, D		SHAH, MILAP			
			ART UNIT	PAPER NUMBER	
			3717		
			NOTIFICATION DATE	DELIVERY MODE	
			06/22/2016	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

pto@nsiplaw.com pto.nsip@gmail.com

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		Application No. 13/924,186 Applicant(s) SHIN ET AL.					
		Examiner MILAP SHAH	Art Unit 3717	AIA (First Inventor to File) Status No			
The MAILING Period for Reply	DATE of this communication app	ears on the cover sheet with the co	orrespondend	ce address			
THIS COMMUNICATION - Extensions of time may be after SIX (6) MONTHS from the None of the properties of time may be after SIX (6) MONTHS from the None of the None	N. e available under the provisions of 37 CFR 1.13 m the mailing date of this communication. becified above, the maximum statutory period w set or extended period for reply will, by statute,	Y IS SET TO EXPIRE <u>3</u> MONTHS 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONED and the of this communication, even if timely filed,	nely filed the mailing date of D (35 U.S.C. § 133	f this communication.			
Status							
1) Responsive to	communication(s) filed on 4/12/	<u>16</u> .					
	n(s)/affidavit(s) under 37 CFR 1.1						
2a) This action is I	FINAL. 2b) This	action is non-final.					
3) An election wa	as made by the applicant in respo	onse to a restriction requirement s	set forth durin	ng the interview on			
	; the restriction requirement and election have been incorporated into this action.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims*	·	,					
· <u> </u>	☐ Claim(s) 1-15 is/are pending in the application.						
	5a) Of the above claim(s) is/are withdrawn from consideration.						
6) Claim(s)	Claim(s) is/are allowed.						
7) Claim(s) <u>1-15</u>	☑ Claim(s) <u>1-15</u> is/are rejected.						
	Claim(s) is/are objected to.						
	9) Claim(s) are subject to restriction and/or election requirement.						
* If any claims have been determined <u>allowable</u> , you may be eligible to benefit from the Patent Prosecution Highway program at a							
participating intellectual property office for the corresponding application. For more information, please see							
•	its/init_events/ppn/index.jsp or send	an inquiry to PPHfeedback@uspto.g	<u>ov</u> .				
Application Papers							
	on is objected to by the Examine						
11) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
Priority under 35 U.S.C							
, _	ent is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
Certified copies:							
a) All b) Some** c) None of the:							
	1. Certified copies of the priority documents have been received.						
=	2. Copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). ** See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)		_					
1) Notice of References Cited (PTO-892)		3) Interview Summary	•				
2) Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/S Paper No(s)/Mail Date		Paper No(s)/Mail Da SB/08b) 4) Other:	.te				

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DETAILED ACTION

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Response to Arguments

Applicant's amendments overcome the previously set forth 35 U.S.C. 112 rejections, thus those rejections are hereby withdrawn.

Applicant's arguments pertaining to the 35 U.S.C. 102 & 103 rejections have been fully considered, but they are not persuasive.

35 U.S.C. 102 rejections: Applicant argues that Porwal fails to disclose any mapping relationship, as the term would have been understood by one of ordinary skill in the art, and points to paragraph 0067 of Applicant's specification for an example of a mapping arrangement. While paragraph 0067 discusses one example of a mapping relationship, it clearly does not set forth any sole or definitive definition of the term. Thus, the Examiner must respectfully disagree that Porwal fails to disclose "any mapping relationship" ... Porwal discloses mapping virtual alpha button as an alpha button input to the game system and assigns it to a particular region (paragraphs 0023-0040, i.e. it has assigned a key input to a virtual button), such that upon touching the virtual alpha button during game play, the game system recognizes an alpha button input has been pressed by a game controller. Applicant's claimed invention cannot be afforded the narrow interpretation that it appears the Applicant is utilizing, such that key inputs need be physical inputs or key inputs of some other control device, although Applicant's exact interpretation appears unclear from the brief remarks. Exemplary claim 1 recites a mapping relationship between "key inputs" (with no specificity) to the application and virtual input messages and an arrangement of virtual buttons based on the mapping relationships. The Examiner submits that Porwal, in one interpretation, reasonably discloses these limitations, amongst others, such that the touch screen of Porwal allows virtual buttons to be displayed, the virtual buttons to be associated with "key inputs" (i.e. some input to the game application), and virtual messages, such that upon a player using their finger to select a virtual button,

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namely the virtual alpha button, the mapping relationship indicates that region of the touch display is the alpha button, and a virtual message or signal indicating the alpha button has been pressed is generated.

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Applicant also mentions that since game controller 103 (of Porwal) is the only game controller disclosed, there is no suggestion of virtual control buttons being mapped to key inputs. Examiner is unsure of the intent of this argument. Such as, if the argument is intended to show that some other controller or input device is utilized in Applicant's invention. No other controller appears to be claimed.

Ultimately, it appears Applicant's interpretation as set forth in the very brief set of arguments is one of numerous interpretations given the language set forth in the claims, with one or more limitations having little to no explicit specificity, definition, or scope.

35 U.S.C. 103 rejections: Applicant's arguments fail to comply with 37 CFR 1.111(b) because they amount to a general allegation that the claims define a patentable invention without specifically pointing out how the language of the claims patentably distinguishes them from the references. Moreover, Applicant indicates Porwal fails to disclose a feature of claim 2, for which the Examiner agrees and submits Ohta. Applicant fails to articulate why Ohta fails to remedy the deficiencies of Porwal. For at least the reasons set forth in the rejection of claim 2 (the only claim discussed in the arguments), the Examiner maintains the position.

Consequently, the 35 U.S.C. 102 & 103 rejections are maintained from the previous office action and reproduced below with minor updates to reflect Applicant's amendments.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 4, 6-9, 11, & 13-15 are rejected under pre-AIA 35 U.S.C. 102(b) as being anticipated by Porwal (U.S. Patent Application Publication No. 2011/0009195).

Claims 1, 4, 9, & 11: Porwal discloses a mobile terminal (game controller 103) comprising a virtual controller client configured to remotely communicate with a virtual controller server running on a computer for remote key input on an application running on the computer (abstract and paragraphs 0025-0027, wherein the game controller 103 is communicatively coupled to a game system 105 operating a "virtual controller server" which is capable of transmitting layout commands), the virtual controller client comprising:

a button setting adjusting unit configured to receive button setting information including mapping relationship between key inputs to the application and virtual input messages, and to specify an arrangement and attributes of virtual buttons based on the received button setting information (paragraphs 0023-0040, wherein Porwal discloses a "button setting adjusting unit" or game controller processor 402 [fig. 4] facilitates the receiving of a layout command transmitted from the game system 105, the layout command including a mapping relationship between key inputs to the application and virtual input messages from the virtual control server, i.e. mapping virtual alpha button as an alpha button input to the game system and assigning it to a particular region on the touch screen portion of the game controller 103, such that upon touching the virtual alpha button during game play, the game system recognizes an alpha button has been pressed by a game controller);

a user virtual button interface configured to generate a virtual button screen in which touch regions corresponding to the virtual buttons are visually displayed, and to display the virtual button screen on a touch screen of the mobile terminal (figures 1A-4 and paragraphs 0023-0040, wherein Porwal discloses a

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user virtual button interface, i.e. a touch screen, that renders a virtual button layout in which touch regions display corresponding virtual buttons);

a touch event filter configured to generate touch input messages that can be recognized as key inputs by the application, based on touch event objects that are generated from touch signals, of the touch regions corresponding to the virtual buttons, among touch signals input by the touch screen (figures 1A-4 and paragraphs 0023-0040, wherein Porwal discloses that upon a player touching a virtual button, such as the virtual alpha button, a "touch input message" is generated and transmitted to the game system that recognizes the touch signal as a alpha button being pressed on a game controller, as a particular key input for the game; this would differ from merely touching an area of the touch screen not explicitly assigned to a button, such as a directly beneath the virtual alpha button); and

a client message interfacing unit configured to convert the touch input message into a virtual input message in a form that can be recognized by the virtual controller server, and to output the virtual input message (figure 4, where the game controller comprises a number of components including a processor and a communication module, where it is interpreted that a "client message interfacing unit" is at least the processor generating understandable data packets for the communication module to transmit to the game system 105, so as to enable the virtual control server of game system 105 to recognize virtual input messages of virtual buttons being touched).

Regarding claim 4, all of the above applies, further Porwal also discloses a virtual controller server as described above, operating on a computer so that the virtual controller server is allowed to remotely communicate with a virtual controller client running on a remote mobile terminal including a touch screen for remote key input on an application running on the computer (i.e. the game controller 103 having the touch screen interface with virtual buttons for operation of a game application running on the game system 105), where virtual controller server comprising:

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a button setting generating unit configured to generate button setting information including mapping relationship between key inputs to the application and virtual input messages (layout commands as discussed above, generated by the game system 105 to be transmitted to the game controller 103);

a server message interfacing unit configured to transmit a setting message including the button setting information to the virtual controller client (i.e. the layout commands), and to receive a virtual input message from the virtual controller client, the virtual input message being generated based on a touch on the touch screen of the mobile terminal (i.e. touching of a virtual button generating a command input to the game system, as discussed above with claim 1); and

a key mapping unit configured to identify a key input value mapped to the received virtual input message based on the button setting information (i.e. the game system 105 determining which virtual button was touched according to the layout and received virtual input messages).

Regarding claim 9, all of the above applies, further Porwal a remote control system comprising the virtual control server a virtual controller client, the details of each clearly described above (figures 1A-5, abstract, and at least paragraphs 0023-0044), that is, the virtual control server extracts key input from virtual messages received from the virtual controller client for providing key input to the application (i.e. when a player touches a virtual alpha button, the game executes a command as if a game controller pressed an alpha button) and the virtual controller client operates on a mobile terminal (game controller 103) that has a touch screen for specifying an arrangement and attributes of virtual buttons based on a layout command received from the virtual control server, the layout being displayed on the touch screen display of the game controller, so as to enable players to touch virtual buttons that can be recognized by the game system 105 as having used physical buttons on a game controller.

Regarding claim 11, all of the above applies, further Porwal discloses a remote controller interfacing method using a virtual control server running on a computer (game system 105) and a virtual

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controller client running on a mobile terminal with a touch screen (game controller 103) for remote key input for an application running on the computer, the method comprising:

generating, by the virtual controller server, button setting information including mapping relationship between key inputs required by the application and virtual input messages to be transmitted by the virtual controller client, to be transferred to the virtual controller client (layout commands as described in previously above);

specifying, by the virtual controller client, an arrangement and attributes of virtual buttons based on the button setting information, and displaying, by the virtual controller client, a virtual button screen in which the virtual button regions are visually arranged on the touch screen (figure 1A, where the layout command is used to display a layout of virtual buttons in touch screen virtual button regions);

generating, by the virtual controller client, touch event objects based on a touch signal generated by the touch screen, and further a touch input message based on the valid touch event objects (i.e. when a player touches a virtual alpha button, a "touch event object" is generated, such as the touching of such a button, which differs from touching merely an area of the touch screen not assigned a virtual button, thus when touching the virtual alpha button versus a non-assigned assigned area, the "touch input message" of a valid touch is generated);

transferring, by the virtual controller client, a virtual input message generated based on the touch input message to the virtual controller server (i.e. as described previously in detail, the touch input at the game controller 103 of a particular virtual button is sent as a virtual input message to the virtual controller server);

identifying, by the virtual controller server, a key input value mapped to the received virtual input message based on the button setting information (i.e. once the touch input message is received, the key pressed is identified by the processing application); and

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command based on touching of a virtual button).

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transferring, by the virtual controller server, the identified key input value to the application (i.e. once identified, the key input command is moved to the game application for actual execution of a game

Claims 3, 8, & 15: Porwal discloses software facilitates such computer/virtual interactions between the virtual controller server (i.e. software running on the game system 105) and the virtual controller client (i.e. software running on the game controller 103), thus discloses a computer-readable medium storing a program that is run by the virtual controller client, the virtual controller server, so as to implement the remote controller interfacing method described above (see at least paragraphs 0026, 0040-0042, 0047).

Claims 6, 7, 13, & 14: Porwal discloses the key mapping unit transfers a key input value to the application via a message transfer architecture of an operating system that runs the application on the computer, the architecture interpreted as an input and output application programming interface (paragraph 0039-0042).

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 5, 10, & 12 are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Porwal, as applied to claims 1, 3, 4, 6-9, 11, & 13-15, where applicable, in view of Ohta et al. (U.S. Patent Application Publication No. 2012/0044177; hereinafter "Ohta").

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Claims 2, 5, 10, & 12: Porwal discloses the invention substantially as claimed except for explicitly disclosing that the user virtual button interface activates an acceleration sensor of the mobile terminal so that movements of the mobile terminal can be detected. Essentially, Porwal discloses a game controller having no acceleration sensor. Regardless of the deficiency, acceleration sensors integrated into game controllers have been notoriously well known well before Applicant's invention. Ohta discloses a mobile terminal (i.e. a hand-held game controller) having a touch screen that displays one or more virtual buttons (i.e. game-specific input commands that are selectable via touch), such that this hand-held game controller incorporates an acceleration sensor 37. Ohta discloses that operation data of the hand-held game controller, including data obtained from the accelerometer is transmitted to a game console for ultimately controlling a game executed at the game console (paragraphs 0125, 0146). Thus Ohta clearly teaches a mobile terminal having an acceleration sensor configured to obtain movements of the mobile terminal. The acceleration sensor is activated via the user virtual button interface insomuch that the hand-held controller enables utilization of the acceleration sensor. While Porwal fails to disclose the acceleration sensor, it would have been obvious to those skilled in the art to incorporate an acceleration sensor as taught by Ohta within the mobile terminal of Porwal as an additional sensor providing an additional means to control game play at game system 105 of Porwal, such as allowing more commonplace threedimensional game control. In such a combination of Porwal and Ohta, it would have been straightforward to incorporate a means for the virtual controller client to obtain the operation data and transmit such data to the virtual control server, such as through an acceleration data filter configured to generate a movement input message that is mapped as key input by the application, based on acceleration data that is generated based on an acceleration signal generated by the acceleration sensor (i.e. tilt right as a move or look right command during game play, equivalent to a right-arrow input on a direction pad; paragraph 0154); and a client message interfacing unit operable to convert the touch input message or the movement input

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message into a virtual input message in a form that can be recognized by the virtual controller server and to output the virtual input message (i.e. as described above with respect to at least claims 1, the client message interfacing unit converts the touch input messages to a format understandable by the virtual control server, likewise the same process need be performed for acceleration sensor data, to output a virtual input message thereby controlling an aspect of game play with the acceleration sensor, where, Ohta similarly discloses such a process as the formation of operation data transmitted to the game console).

Therefore, it would have been *prima facie* obvious to incorporate the commonplace acceleration sensor of the game controller as taught by Ohta within the invention of Porwal to provide the user of the Porwal game controller an additional means to provide input to the game system, thereby utilizing the same input/output mechanisms in place to transmit operation data (i.e. touch inputs and acceleration sensor readings) to the game system for controlling a game play. Clearly Porwal and Ohta are in the same field of endevour and teach various aspects of a wireless/mobile game controller, such that any artisan having ordinary common knowledge in the gaming arts would have been motivated to produce such a combination. Not only would the Porwal invention enable dynamic virtual button layouts, but the combination would allow the player to provide three-dimensional tilt/orientation based input.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action

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is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX

MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to MILAP SHAH whose telephone number is (571)272-1723. The examiner can normally be

reached on M-F: 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kang

Hu can be reached on (571) 270-1344. The fax phone number for the organization where this application

or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

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CANADA) or 571-272-1000.

/MILAP SHAH/

Primary Examiner, Art Unit 3717